**SLTN-1 – Solutions Part 1 – Online -**

**Part Number:**EDU-SLTN-1 | **Price:**$1,500 USD | **Duration:** 5 Days (4hrs/day)  
Please note:  
For classes held in Asia Pacific, email [Training-apj@arubanetworks.com](mailto:Training-apj@arubanetworks.com) and for class locations in Europe, the Middle East and Africa, email [Training-emea@arubanetworks.com](mailto:Training-emea@arubanetworks.com)for pricing and location information.

**Course Overview**

The lab-intensive Solutions Part 1 course is designed to provide students a foundation in WLAN technologies including IEEE 802.11 standards and amendments, Enterprise Security concepts with a focus on BYOD solutions, and the unique requirements of mobile devices and application such as voice and video. Instructor lecture and hands-on labs illustrate the basics of RF technologies and how RF behavior affects performance of a WLAN. Students will use Spectrum Analysis to determine the RF environment and optimize a WLAN for a given RF environment. Antenna types and characteristics will be discussed and how the signal propagation affects the performance and range of a WLAN. Hands-on labs explain how to configure the most common RADIUS servers for 802.1x and EAP authentication. This course is the first part of the Aruba Certified Solutions Professional program.

**Who should attend?**

Network Administrators and Engineers who will be supporting mobile devices on a WLAN. Customers and partners who want a better understanding of the requirements and needs of mobile devices in a WLAN. Anyone who wants a better understanding of the fundamentals of WLAN standards, security device and optimizing a WLAN for mobile application and devices. Being familiar with Aruba technology and solutions is not a pre-requisite.

**Prerequisites**

An understanding of basic networking concepts and TCP/IP are necessary. A conceptual understanding of VLANs and data traffic flow in a wired network environment is useful as well.

* [Networking Fundamentals](http://www.arubanetworks.com/support-services/training-top/networking-fundamentals) (Recommended)

**Course Content**

This course covers the following topics:

* Wi-Fi Organizations and Standards
* Using spectrum analysis to determine channels and devices
* Components of the Physical WLAN Infrastructure
* Using Spectrum Analysis to determine interference sources
* Logical WLAN Configuration
* RF Components of a WLAN system
* Understanding RF signal propagation
* Determining and viewing antenna radiation patterns
* RF characteristics and behavior
* WLAN Performance and Optimization
* WLAN Security Overview
* User Authentication
* PSK / Passphrase Authentication
* X.509 Certificates
* Client and Server Side Certificates
* Configuring NPS
* Configuring 802.1x /EAP on a RADIUS server
* Configuring Web Authentication
* Using WLAN Encryption
* Wireless Intrusion Protection System (WIPS)
* Rogue AP locating
* Wireless Intrusion Protection System
* Air Monitoring
* Mobile Device Overview
* Mobile Device Types and Characteristics
* Using Voice and Video multimedia Applications
* Battery life management
* Roaming and Quality of Service
* Wi-Fi Access for corporate devices
* Wi-Fi Access for non corporate device
* Connecting to a Guest WLAN using a non-corporate device
* Mobile Device Access Control
* Optimizing the Network for Mobile Devices